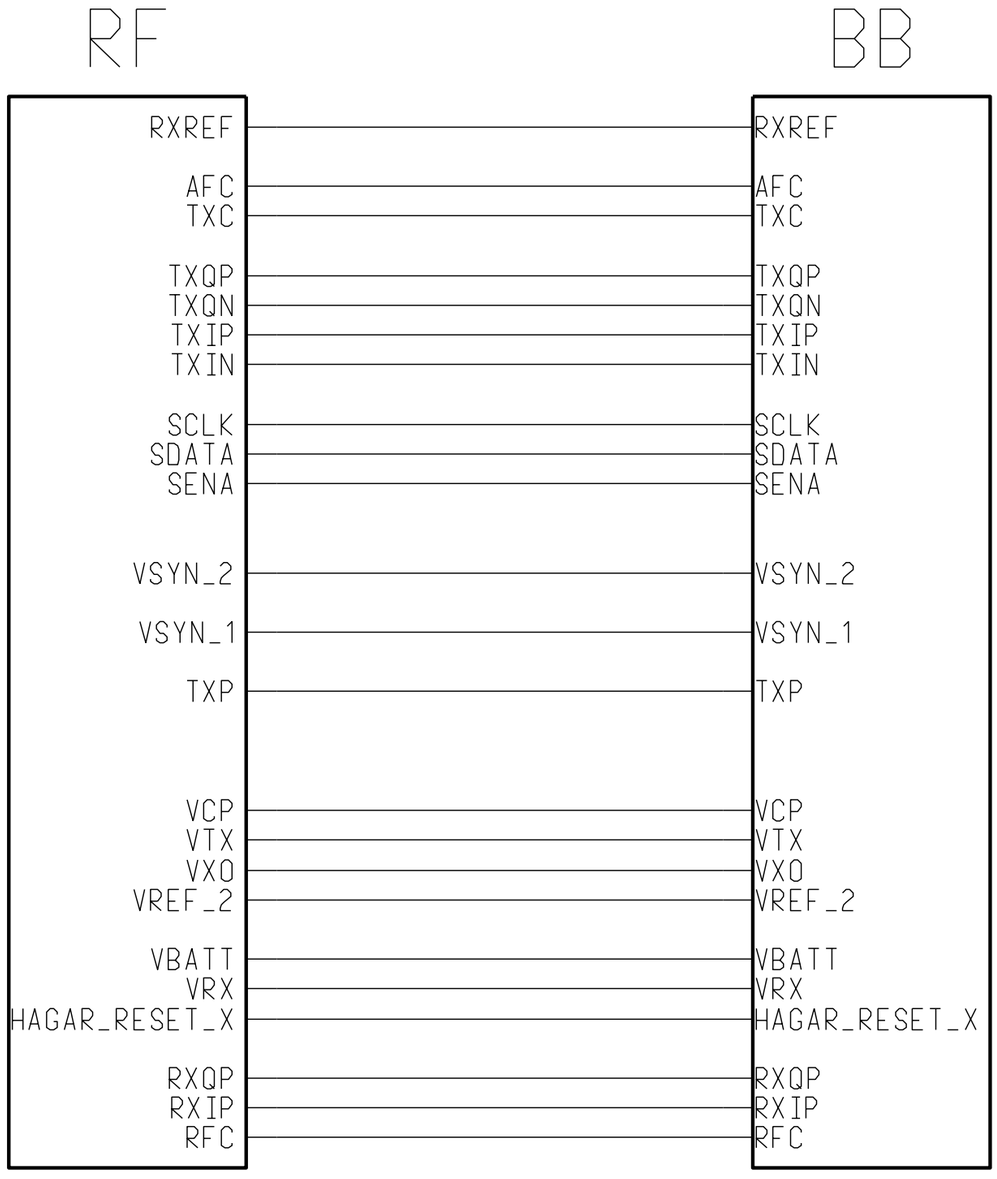
RF / Baseband Connections



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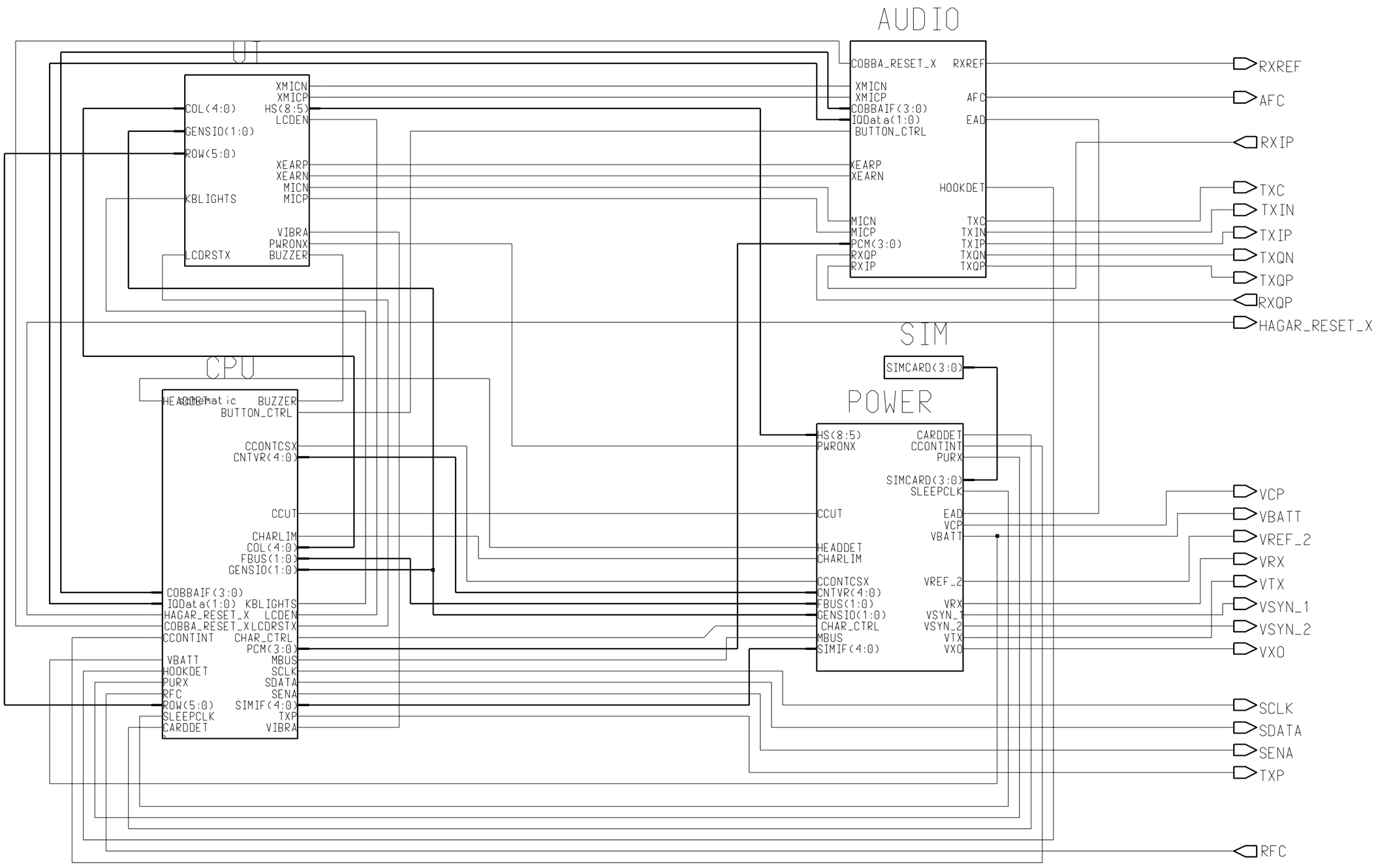
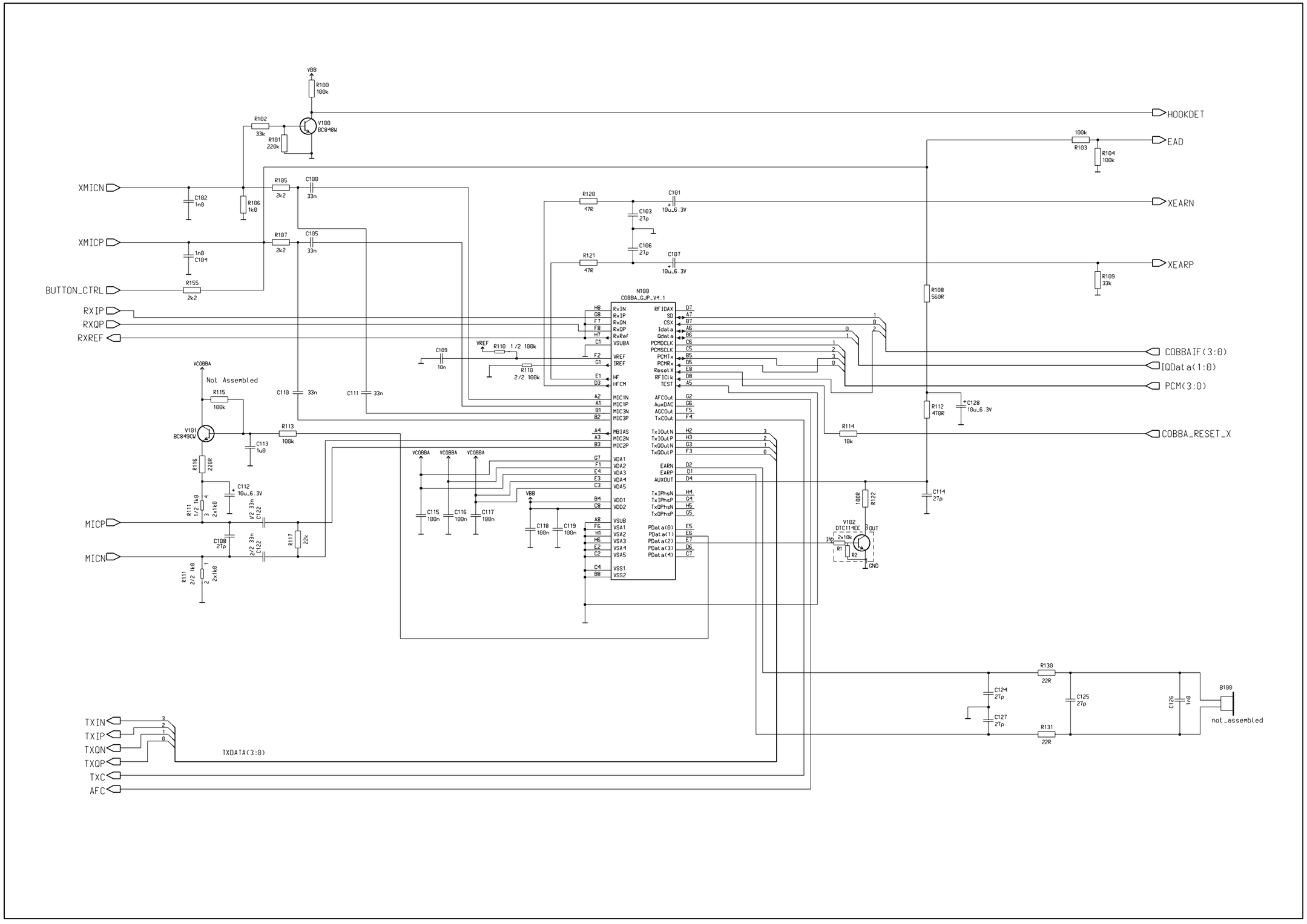
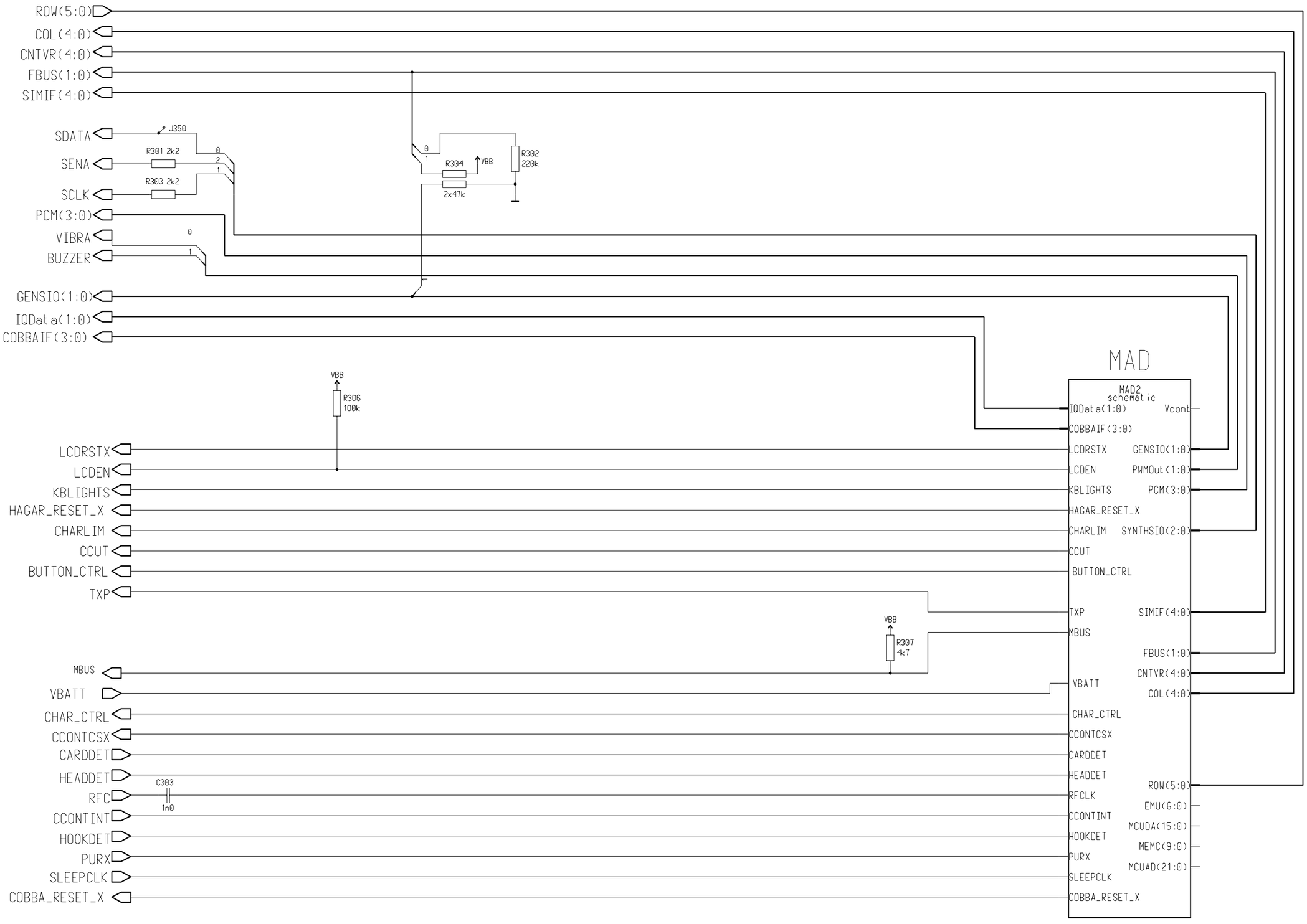
Baseband Block



Audio


VBB
R100 100k
R102 33k
R101 220k
V100 BC848W
HOOKDET
EAD
R103 100k
R104 100k
XMICN
XMICP
BUTTON_CTRL
RXIP
RXQP
RXREF
C102 1n0
R106 1k0
R105 2k2
C100 33n
C104 1n0
R107 2k2
C105 33n
R155 2k2
R120 47R
C101 10u_6.3V
C103 27p
C106 27p
R121 47R
C107 10u_6.3V
XEARN
XEARP
R109 33k
R108 560R
N100
COBBA_GJP_V4.1
RxIN
RxIP
RxQN
RxQP
RxRef
VSUBA
VREF
IREF
HF
HFCM
RFIDAX
SD
CSX
Idata
Qdata
PCMDCLK
PCMSCLK
PCMTx
PCMRx
ResetX
RFIClk
TEST
COBBAIF(3:0)
IQData(1:0)
PCM(3:0)
C109 10n
VREF R110 1/2 100k
R110 2/2 100k
VCOBBA
Not Assembled
R115 100k
C110 33n
C111 33n
MIC1N
MIC1P
MIC3N
MIC3P
AFCOut
AuxDAC
AGCOut
TxCOut
R112 470R
C128 10u_6.3V
R114 10k
COBBA_RESET_X
V101 BC849CW
R113 100k
C113 1u0
MBIAS
MIC2N
MIC2P
TxIOutN
TxIOutP
TxQOutN
TxQOutP
R116 220R
C112 10u_6.3V
VDA1
VDA2
VDA3
VDA4
VDA5
EARN
EARP
AUXOUT
C114 27p
R111 1/2 1k0
2x1k0
Y2 33n
C122
C115 100n
C116 100n
C117 100n
VDD1
VDD2
TxIPhsN
TxIPhsP
TxQPhsN
TxQPhsP
R122 100R
V102 DTC114EE
2x10k
R1
R2
IN
OUT
GND
MICP
MICN
C108 27p
2/2 33n
C122
R117 22k
R111 2/2 1k0
2x1k0
C118 100n
C119 100n
VSUB
VSA1
VSA2
VSA3
VSA4
VSA5
VSS1
VSS2
PData(0)
PData(1)
PData(2)
PData(3)
PData(4)
R130 22R
C124 27p
C125 27p
C126 1n0
B100
not_assembled
C127 27p
R131 22R
TXIN
TXIP
TXQN
TXQP
TXC
AFC
TXDATA(3:0)

CPU



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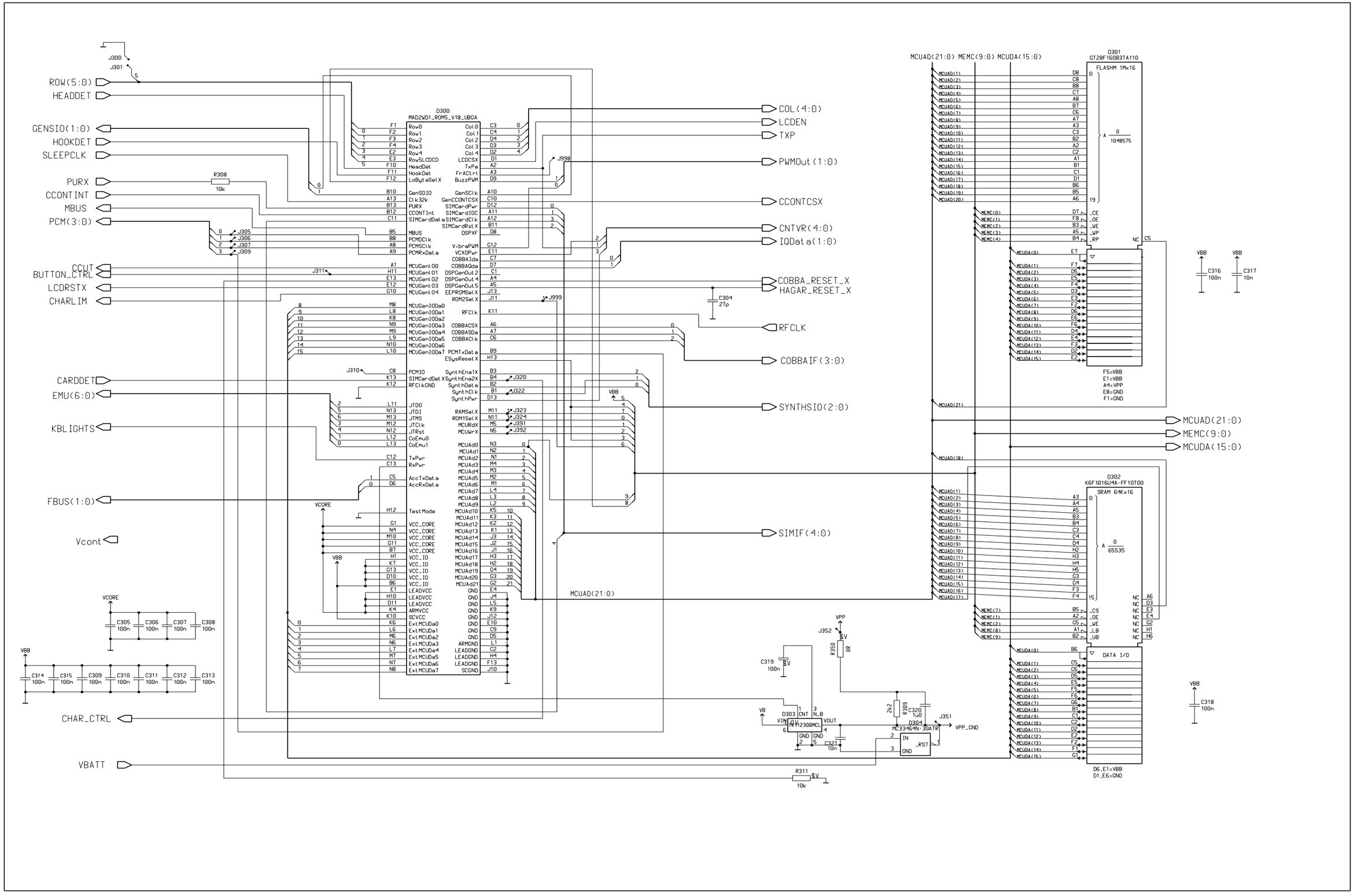
MAD



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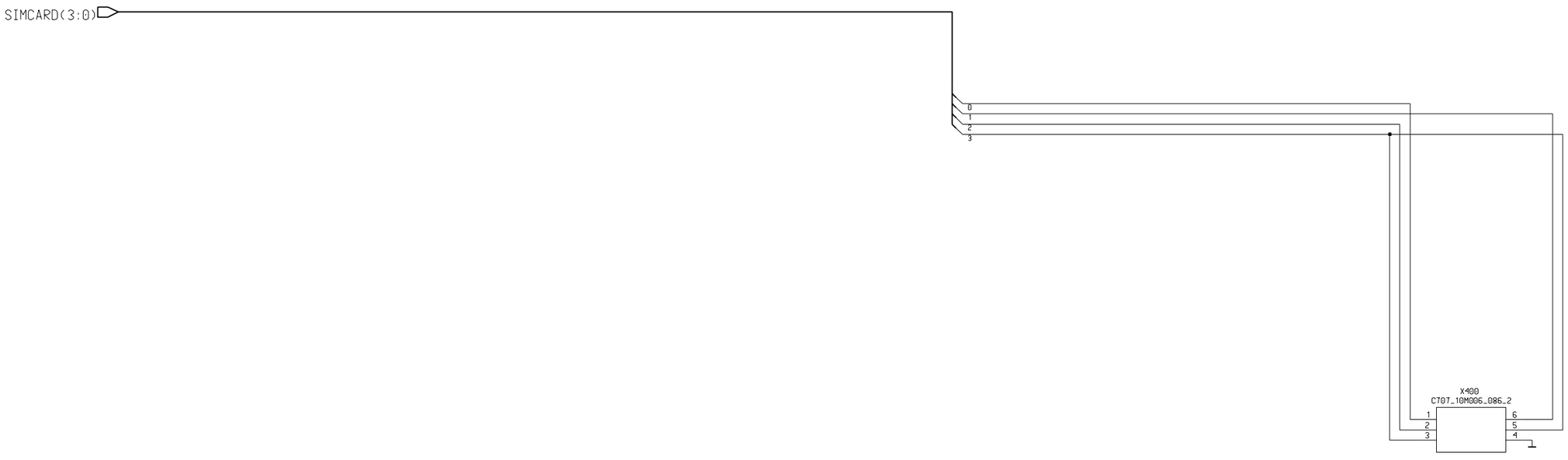
Sim Card Reader



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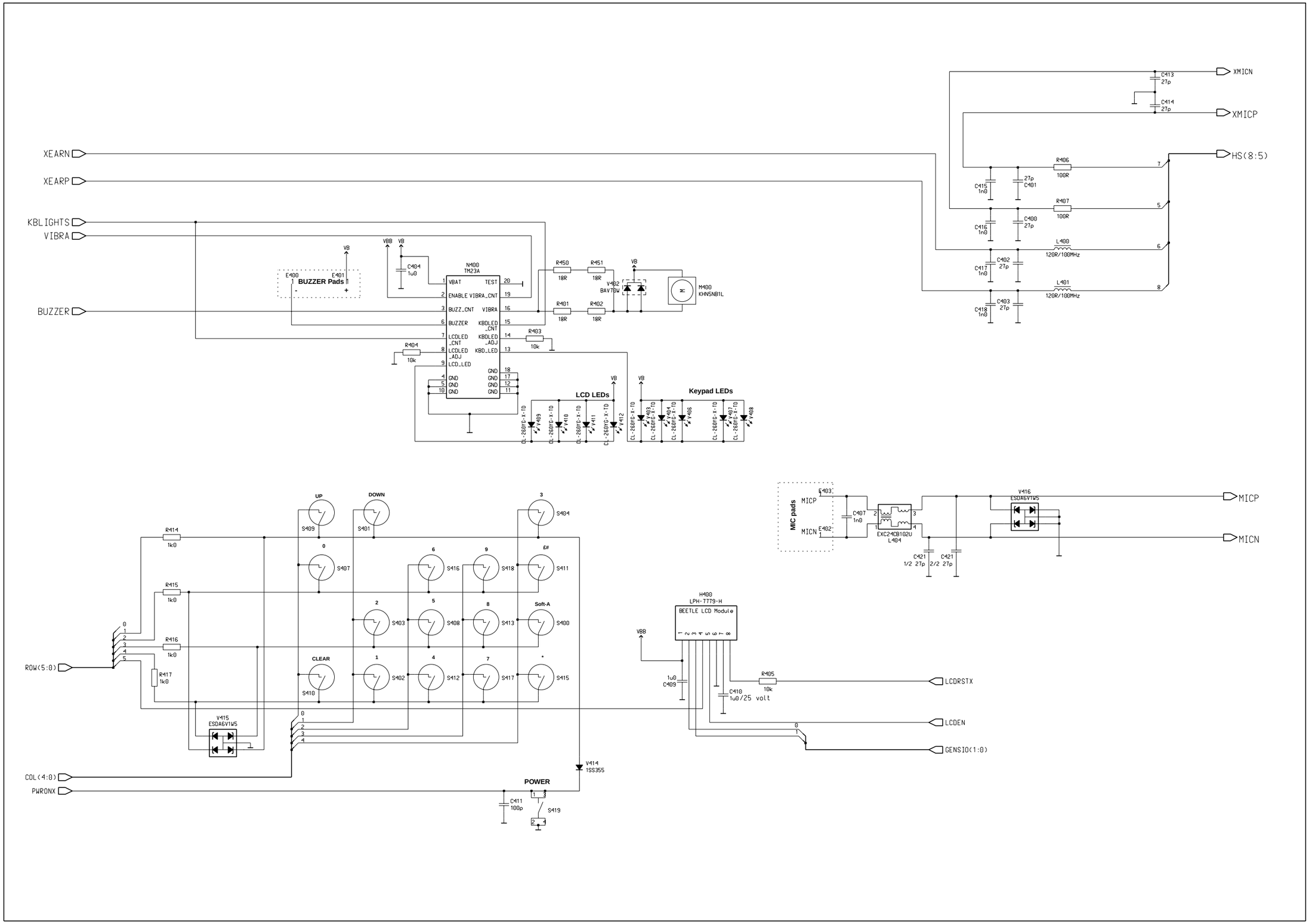
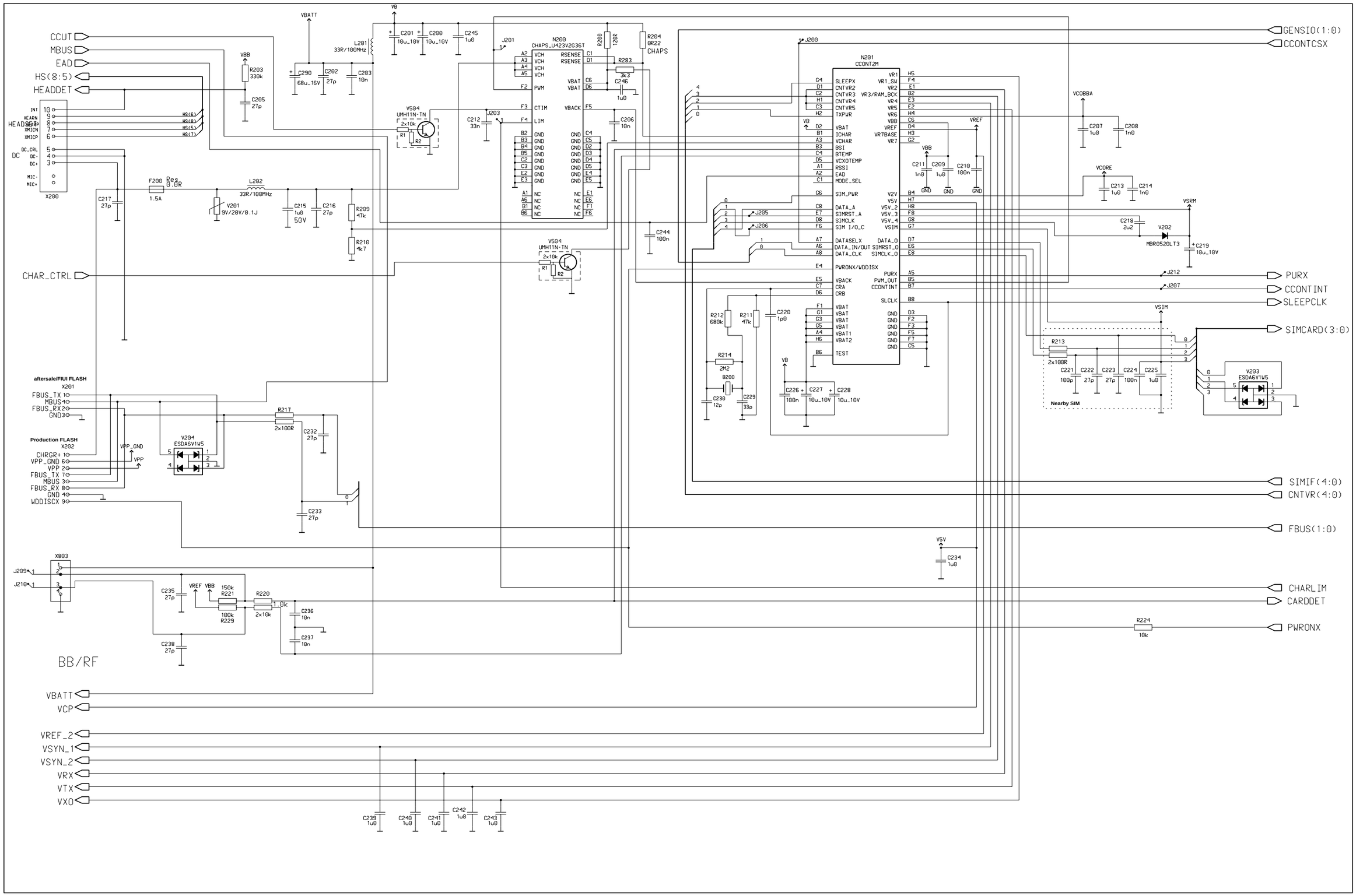
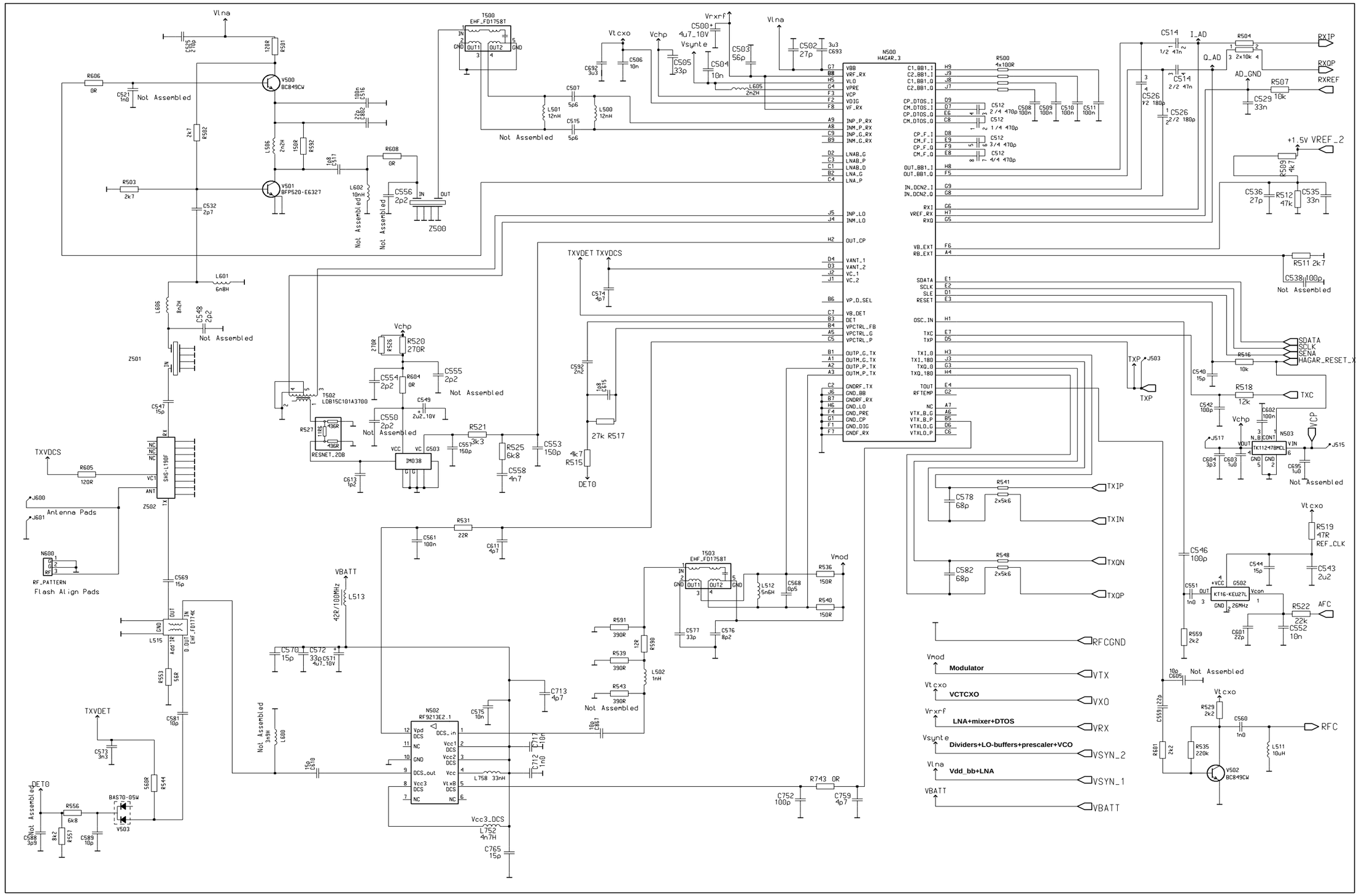
User Interface



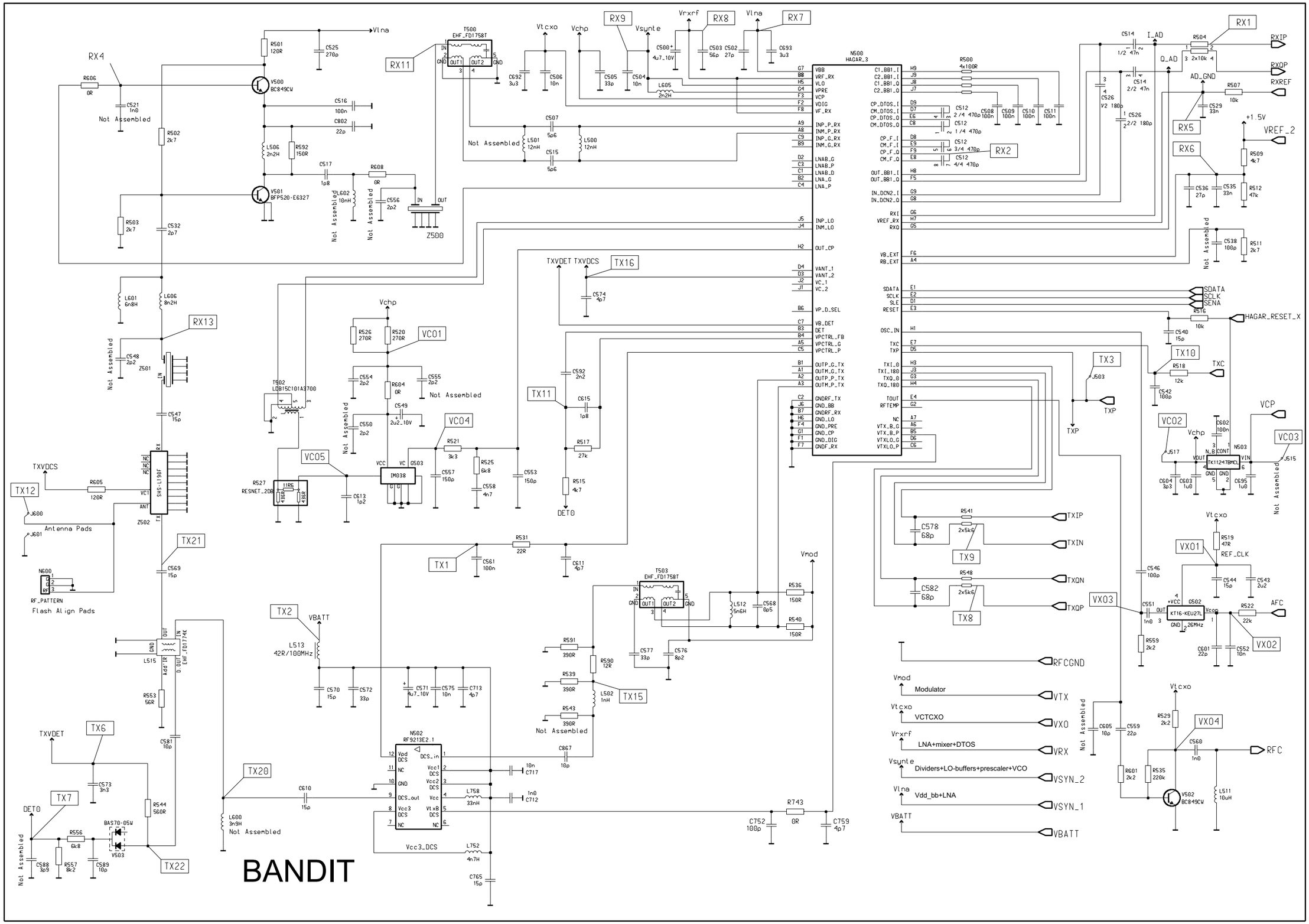
Power Supply / Charging



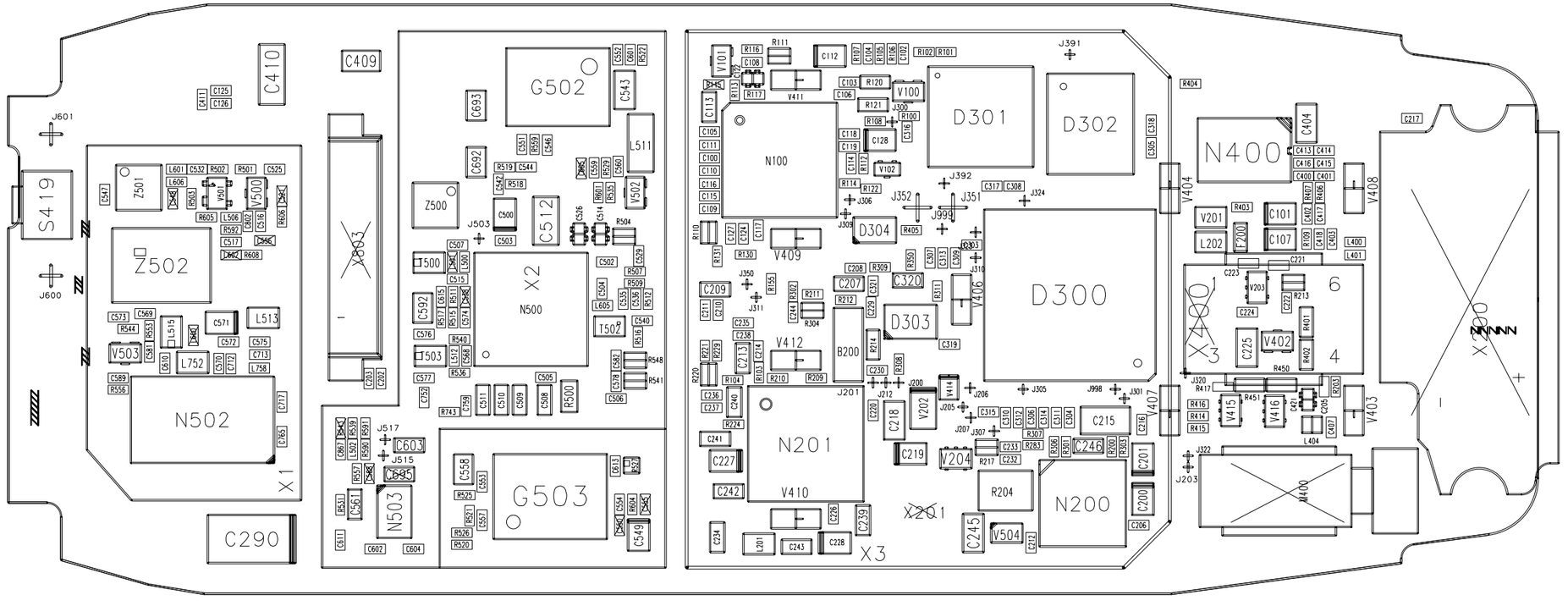
RF


Vlna
Vtcxo
Vchp
Vrxrf
Vsynte
N500 HAGAR_3
N502 RF9213E2.1
T500 EHF_FD1758T
T502 LDB15C101A3700
T503 EHF_FD1758T
IM038
SHS-L198F
RESNET_2DB
BAS70-05W
BC849CW
BFP520-E6327
KT11247BMCL
KT16-KEU27L
Antenna Pads
RF_PATTERN
Flash Align Pads
Not Assembled
TXVDCS
TXVDET
DETO
VBATT
Vmod
RXIP
RXQP
RXREF
AD_GND
I_AD
Q_AD
SDATA
SCLK
SENA
HAGAR_RESET_X
TXP
TXC
VCP
TXIP
TXIN
TXQN
TXQP
RFCGND
VTX
VXO
VRX
VSYN_2
VSYN_1
VBATT
RFC
AFC
REF_CLK
+1.5V VREF_2
Modulator
VCTCXO
LNA+mixer+DTOS
Dividers+LO-buffers+prescaler+VCO
Vdd_bb+LNA

RF Test Points



Component Layouts


J601
S419
J600
C410
C409
C411
C125
C126
Z501
V500
Z502
V503
L752
N502
X1
C290
X803
G502
C693
C692
Z500
J503
C500
C503
C512
T500
X2
N500
T503
C592
C577
C752
C759
C511
C510
C509
C508
R500
C505
C506
L511
C543
V502
R504
C502
R507
R509
C504
C605
T502
C540
R548
R541
C582
C578
J517
C603
J515
C685
N503
C611
C602
C604
G503
C558
C553
C554
C549
C613
C550
C601
R522
C551
R559
R546
C559
R529
C560
R601
R535
C526
C511
C535
C536
R572
R536
C548
C547
C569
R544
R553
C571
L513
C572
C575
C713
C570
C572
L758
C589
R556
C717
C765
C567
R539
R581
R557
R560
C561
R553
R526
R520
R557
R604
C554
C549
C613
C550
C601
R522
C543
L511
V502
C512
C526
C511
R504
C502
R507
R509
C504
C605
T502
C540
R548
R541
C582
C578
C506
C505
R500
C508
C509
C510
C511
R743
C759
C752
C577
C592
T503
R536
R540
C568
L512
C574
R515
R511
C615
C577
C576
C515
C500
C503
J503
C692
C693
G502
C550
C601
R522
C551
R559
R546
C559
R529
C560
R601
R535
C526
C511
C535
C536
R572
R536
C548
C547
C569
R544
R553
C571
L513
C572
C575
C713
C570
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L758
C589
R556
C717
C765
C567
R539
R581
R557
R560
C561
R553
R526
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R557
R604
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C515
C500
C503
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G502
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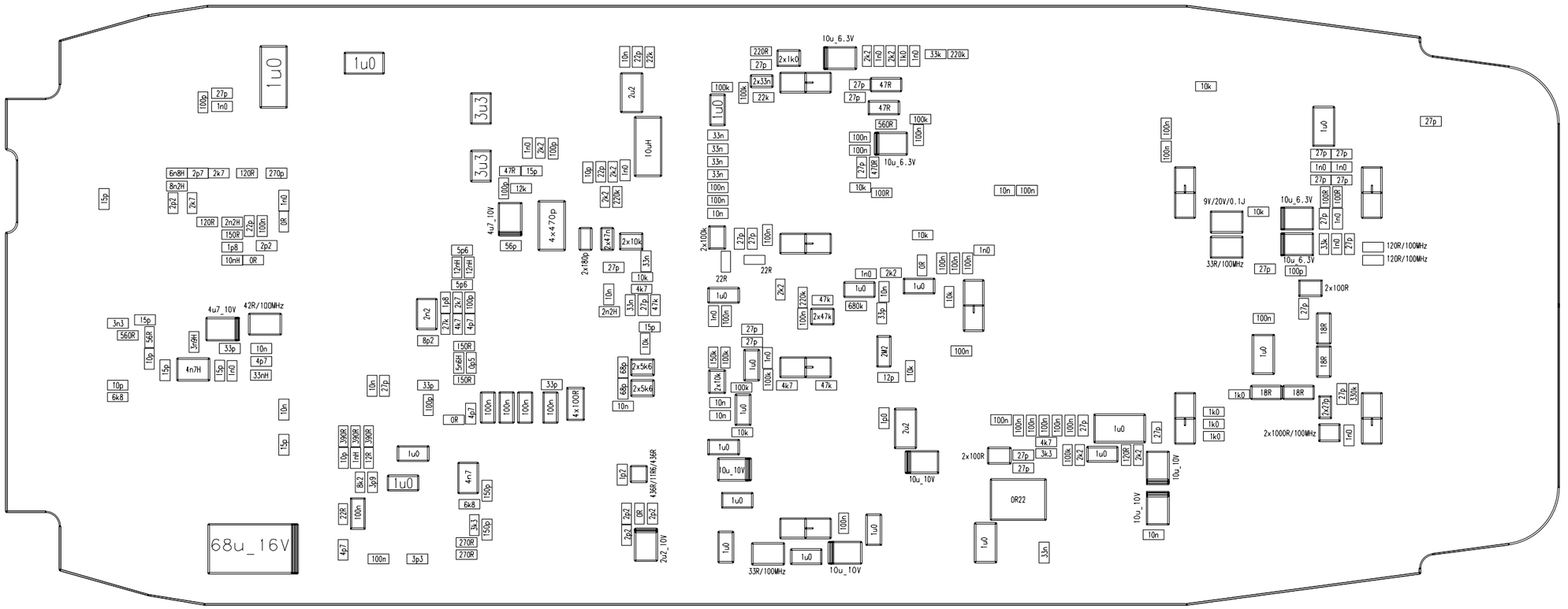
C685
N503
C611
C602
C604
G503
C558
C553

Component Values



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